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1 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001   Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 4
Publisher: ACM

Full text available: 📄 Pdf (1.95 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 202, Citation Count: 13

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

2 Computer-generated floral ornament

Michael T. Wong, Douglas E. Zongker, David H. Salesin
July 1998   SIGGRAPH '98: Proceedings of the 25th annual conference on Computer graphics and interactive techniques
Publisher: ACM

Full text available: 📄 Pdf (10.21 MB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 72, Citation Count: 11

Keywords: adaptive clip art, conventionalization, ornamentation, pattern generation, plant development, texture generation

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3 Dynamic software testing of MPI applications with umpire

Jeffrey S. Vetter, Bronis R. de Supinski

November 2000 Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available: Publisher Site , Pdf (83.83 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 64, Citation Count: 9

As evidenced by the popularity of MPI (Message Passing Interface), message passing is an effective programming technique for managing coarse-grained concurrency on distributed computers. Unfortunately, debugging message-passing applications can be difficult. ...

4 Modeling word occurrences for the compression of concordances

A. Bookstein, S. T. Klein, T. Raita

July 1997 Transactions on Information Systems (TOIS) , Volume 15 Issue 3

Publisher: ACM

Full text available: Pdf (630.99 KB)

Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 34, Citation Count: 2

An earlier paper developed a procedure for compressing concordances, assuming that all alements occurred independently. The models introduced in that paper are extended here to take the possiblity of clustering into account. The concordance is conceptualized ...

Keywords: classification of graph nodes, concordance organization, concordance storage, graph structure

5 Real-time protocol analysis for detecting link-state routing protocol attacks

Ho-Yen Chang, S. Felix Wu, Y. Frank Jou

February 2001 Transactions on Information and System Security (TISSEC) , Volume 4 Issue 1

Publisher: ACM

Full text available: Pdf (252.10 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 155, Citation Count: 4

A real-time knowledge-based network intrusion-detection model for a link-state routing protocol is presented for the OSPF protocol. This model includes three layers: a data process layer to parse packets and dispatch ...

Keywords: OSPF attacks, event correlation, knowledge-based IDS, link-state routing protocol security, real-time misuse intrusion detection, real-time network protocol analysis, timed finite state machine

6 Tuning Strassen's matrix multiplication for memory efficiency

Mithuna Thottethodi, Siddhartha Chatterjee, Alvin R. Lebeck

November 1998   Supercomputing '98: Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available: Html (56.52 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 59,   Citation Count: 18

Strassen's algorithm for matrix multiplication gains its lower arithmetic complexity at the expense of reduced locality of reference, which makes it challenging to implement the algorithm efficiently on a modern machine with a hierarchical memory system. ...

Keywords: cache memory, data layout, matrix multiply, strassen's algorithm

7 Efficient passage ranking for document databases

Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999   Transactions on Information Systems (TOIS) , Volume 17 Issue 4

Publisher: ACM

Full text available: Pdf (328.98 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 79,   Citation Count: 24

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, a strategy that can ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

8 Multimedia traffic analysis using CHITRA95

Marc Abrams, Stephen Williams, Ghaleb Abdulla, Shashin Patel, Randy Ribler, Edward A. Fox

January 1995   MULTIMEDIA '95: Proceedings of the third ACM international conference on Multimedia

Publisher: ACM

Full text available: Html (59.10 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 5,   Citation Count: 4

Keywords: education, networking and communication, tools, workload modeling

9 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September   Computing Surveys (CSUR) , Volume 31 Issue 3
1999
Publisher: ACM

Full text available: Pdf (636.24   Additional Information: full citation, abstract, references, cited by,
KB)   index terms, review

Bibliometrics: Downloads (6 Weeks): 311, Downloads (12 Months): 3497, Citation Count: 433

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

10 ACM SIGAPL APL Quote Quad: Volume 32 Issue 1

September   SIGAPL APL Quote Quad
2001
Publisher: ACM

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

11 Formalizing space shuttle software requirements: four case studies

Judith Crow, Ben Di Vito

July   Transactions on Software Engineering and Methodology (TOSEM) ,
1998   Volume 7 Issue 3
Publisher: ACM

Full text available: Pdf (267.77   Additional Information: full citation, abstract, references, cited by,
KB)   index terms, review

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 181, Citation Count: 4

This article describes four case studies in which requirements for new flight software subsystems on NASA's Space Shuttle were analyzed using mechanically supported formal methods. Three of the studies used standard formal specification and verification ...

Keywords: flight software, formal methods, requirements analysis, space shuttle, state exploration, theorem proving

12 Efficient algorithms for geometric optimization

Pankaj K. Agarwal, Micha Sharir

December 1998 Computing Surveys (CSUR) , Volume 30 Issue 4
Publisher: ACM

Full text available: Pdf (577.74 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 43,   Downloads (12 Months): 459,   Citation Count: 29

We review the recent progress in the design of efficient algorithms for various problems in geometric optimization. We present several techniques used to attack these problems, such as parametric searching, geometric alternatives to parametric searching, ...

Keywords: clustering, collision detection, linear programming, matrix searching, parametric searching, proximity problems, prune-and-search, randomized algorithms

13 Foraging for information resources in cyberspace: Intelligent foraging agent in a distributed network

George E. Mobus, Manuel Aparicio, IV

October 1994   CASCON '94: Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research
Publisher: IBM Press

Full text available: Pdf (655.85 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 15,   Citation Count: 0

Recent advances in autonomous robotic control may be applied to the problem of designing intelligent, mobile agents for cyberspace. This paper examines the field of behavior-based reactive systems (BBRS) as used in robotics that may be applicable in ...

14 FIRE: flexible Intra-AS routing environment

Craig Partridge, Alex C. Snoeren, W. Timothy Strayer, Beverly Schwartz, Matthew Condell, Isidro Castiñeyra

August 2000   SIGCOMM '00: Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication
Publisher: ACM

Full text available: Pdf (107.75 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 51,   Citation Count: 2

Current routing protocols are monolithic, specifying the algorithm used to construct forwarding tables, the metric used by the algorithm (generally some form of hop-count), and the protocol used to distribute these metrics as an integrated package. The ...

Also published in:

October 2000 **SIGCOMM Computer Communication Review** Volume 30 Issue 4

15 MPEG-4: an object-based multimedia coding standard supporting mobile applications

June 1998   Mobile Networks and Applications , Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: Pdf (747.80 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 190,   Citation Count: 8

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes ...

16 Drawing graphs to convey proximity: an incremental arrangement method

Jonathan D. Cohen

September 1997   Transactions on Computer-Human Interaction (TOCHI) , Volume 4 Issue 3

Publisher: ACM

Full text available: Pdf (262.84 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 109,   Citation Count: 14

Graph drawings are increasingly finding their way into user interfaces to convey a variety of relationships. This article deals with rendering graphs to show proximity between vertices by making their configuration (screen) distances reflect their distances ...

Keywords: MDS, force-directed, graph drawing, graph layout, multidimensional scaling

17 From VHDL to efficient and first-time-right designs: a formal approach

Peter F. A. Middelhoek, Sreeranga P. Rajan

April 1996   Transactions on Design Automation of Electronic Systems (TODAES) , Volume 1 Issue 2

Publisher: ACM

Full text available: Pdf (722.99 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 76,   Citation Count: 2

In this article we provide a practical transformational approach to the synthesis of correct synchronous digital hardware designs from high-level specifications. We do this while taking into account the complete life cycle of a design from early prototype ...

Keywords: CDFG, SFG, VHDL, correctness by construction, design methodology, rapid system prototyping, transformational design

18 Vector-space ranking with effective early termination

Vo Ngoc Anh, Owen de Kretser, Alistair Moffat

September   SIGIR '01: Proceedings of the 24th annual international ACM SIGIR
2001   conference on Research and development in information retrieval

Publisher: ACM

Full text available: Pdf (170.73 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 119,   Citation Count: 31

Considerable research effort has been invested in improving the effectiveness of information retrieval systems. Techniques such as relevance feedback, thesaural expansion, and pivoting all provide better quality responses to queries when tested in standard ...

19 Dynamic vectorization: a mechanism for exploiting far-flung ILP in ordinary programs

Sriram Vajapeyam, P. J. Joseph, Tulika Mitra

May   ISCA '99: Proceedings of the 26th annual international symposium on
1999   Computer architecture

Publisher: ACM

Full text available: Publisher Site , Pdf (103.41 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 25,   Citation Count: 4

Several ILP limit studies indicate the presence of considerable ILP across dynamically far-apart instructions in program execution. This paper proposes a hardware mechanism, *dynamic vectorization (DV),* as a tool for quickly building up a large ...

Also published in:

May 1999 **SIGARCH Computer Architecture News** Volume 27 Issue 2

20 Analysis of navigation behaviour in web sites integrating multiple information systems

Bettina Berendt, Myra Spiliopoulou

March   The VLDB Journal — The International Journal on Very Large Data
2000   Bases , Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (281.14 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 208,   Citation Count: 28

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

Result page: 1   2   next
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